



Bison Oil Well Cementing Single Cement Surface Pipe

Date: 9/26/2014

Invoice # 35049

API#

Foreman: Kirk Kallhoff

Customer: Anadarko Petroleum Corporation

Well Name: summit 29n-29hz

County: Weld

State: Colorado

Sec: 29

Twp: 2n

Range: 65w

Consultant: allan

Rig Name & Number: major 42

Distance To Location: 15

Units On Location: 4030-3103/4018-3204

Time Requested: 100 pm

Time Arrived On Location: 1200 pm

Time Left Location:

WELL DATA

Casing Size OD (in) : 9.625

Casing Weight (lb) : 36.00

Casing Depth (ft) : 1,087

Total Depth (ft) : 1105

Open Hole Diameter (in.) : 13.50

Conductor Length (ft) :

Conductor ID :

Shoe Joint Length (ft) : 43

Landing Joint (ft) : 8

Max Rate:

Max Pressure:

Cement Data

Cement Name: BFN III

Cement Density (lb/gal) : 14.2

Cement Yield (cuft) : 1.49

Gallons Per Sack: 7.48

% Excess: 16%

Displacement Fluid lb/gal: 8.3

BBL to Pit:

Fluid Ahead (bbls): 30.0

H2O Wash Up (bbls): 20.0

Spacer Ahead Makeup

Casing ID

8.921

Casing Grade

J-55 only used

Calculated Results

cuft of Shoe 18.66 cuft

(Casing ID Squared) X (.005454) X (Shoe Joint ft)

cuft of Conductor 0.00 cuft

(Conductor Width Squared) - (Casing Size OD Squared) X (.005454) X (Conductor Length ft)

cuft of Casing 616.25 cuft

(Open Hole Squared) - (Casing Size Squared) X (.005454) X (Casing Depth - Conductor Length)

Total Slurry Volume 634.91 cuft

(cuft of Shoe) + (cuft of Conductor) + (cuft of Casing)

bbls of Slurry 113.08 bbls

(Total Slurry Volume) X (.1781)

Sacks Needed 426 sk

(Total Slurry Volume) ÷ (Cement Yield) X (% Excess Cement)

Mix Water 75.89 bbls

(Sacks Needed) X (Gallons Per Sack) ÷ 42

Displacement: 81.33 bbls

(Casing ID Squared) X (.0009714) X (Casing Depth + Landing Joint - Shoe Joint)

Pressure of cement in annulus

Hydrostatic Pressure: 801.88 PSI

Pressure of the fluids inside casing

Displacement: 450.15 psi

Shoe Joint: 31.72 psi

Total 481.87 psi

Differential Pressure: 320.01 psi

Collapse PSI: 2020.00 psi

Burst PSI: 3520.00 psi

Total Water Needed: 207.22 bbls

X 
Authorization To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



**Bison Oil Well Cementing
Single Cement Surface Pipe**

Customer
Well Name

Anadarko Petroleum Corporation
summit 29n-29hz

INVOICE #
LOCATION
FOREMAN
Date

35049
Weld
Kirk Kallhoff
9/26/2014

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DESCRIPTION OF JOB EVENTS

		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
Safety Meeting	129pm															
MIRU	100pm															
CIRCULATE	200pm	0	234pm	10	0			0			0			0		
Drop Plug		10	236pm	50	10			10			10			10		
234 pm		20	238pm	50	20			20			20			20		
		30	241pm	150	30			30			30			30		
		40	243pm	220	40			40			40			40		
M & P		50	245pm	280	50			50			50			50		
Time	Sacks	60	247pm	350	60			60			60			60		
206 pm	426	70	249pm	400	70			70			70			70		
231 pm stop		80	253pm	380	80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
% Excess	16%	120			120			120			120			120		
Mixed bbls	75.8	130			130			130			130			130		
Total Sacks	426	140			140			140			140			140		
bbl Returns	17	150			150			150			150			150		
Water Temp																

Notes:

bumped plug at 81.5 bbls at 254 pm at 1410 psi 113 bbls slurry

floats held

X

Work Performed

X

Title

X

Date

9-26-14

M/D TOTCO 2000 SERIES

